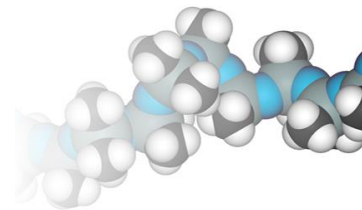


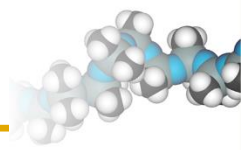
PETROCHEMICAL PRODUCT SERIES

2020



All information in this presentation is for information purposes only and may not be reproduced or distributed without the express written consent of Elkay Chemicals Pvt. Ltd.





ABOUT ELKAY CHEMICALS

For 30 years, Elkay Chemicals Pvt. Ltd. has been manufacturing world class silicone based products. Elkay Chemicals is an cost-effective, technology driven manufacturer of performance chemicals.

ISO 9001-2015 (ICS) certified
REACH registered
FDA facility
STAR Export House

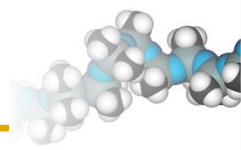
ELKAY has exported to 30
countries for over 22 years



The ELKAY Chemicals Advantage

- Long-standing relationships
- Highest level of business ethics
- Flexible multi-purpose manufacturing facility
- High quality, innovative products & co-develop products with customers
- 11 awards for Innovation, Fair Business Practices, Entrepreneurship, Quality
- Excellent DST approved R&D facility and application lab (7 patents)
- Complete safety/environmental/regulatory compliance and focus

INDUSTRY SEGMENTS SERVED



De-foaming



Textile Finishing



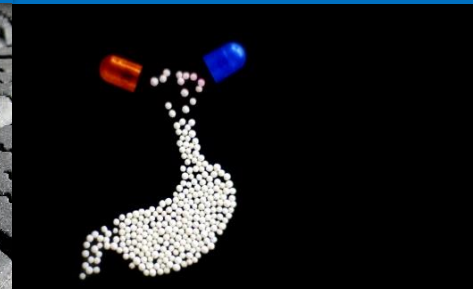
Agriculture



Construction



Rubber & Tire



Pharmaceuticals



Petrochemicals

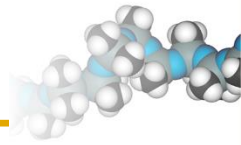


Personal Care

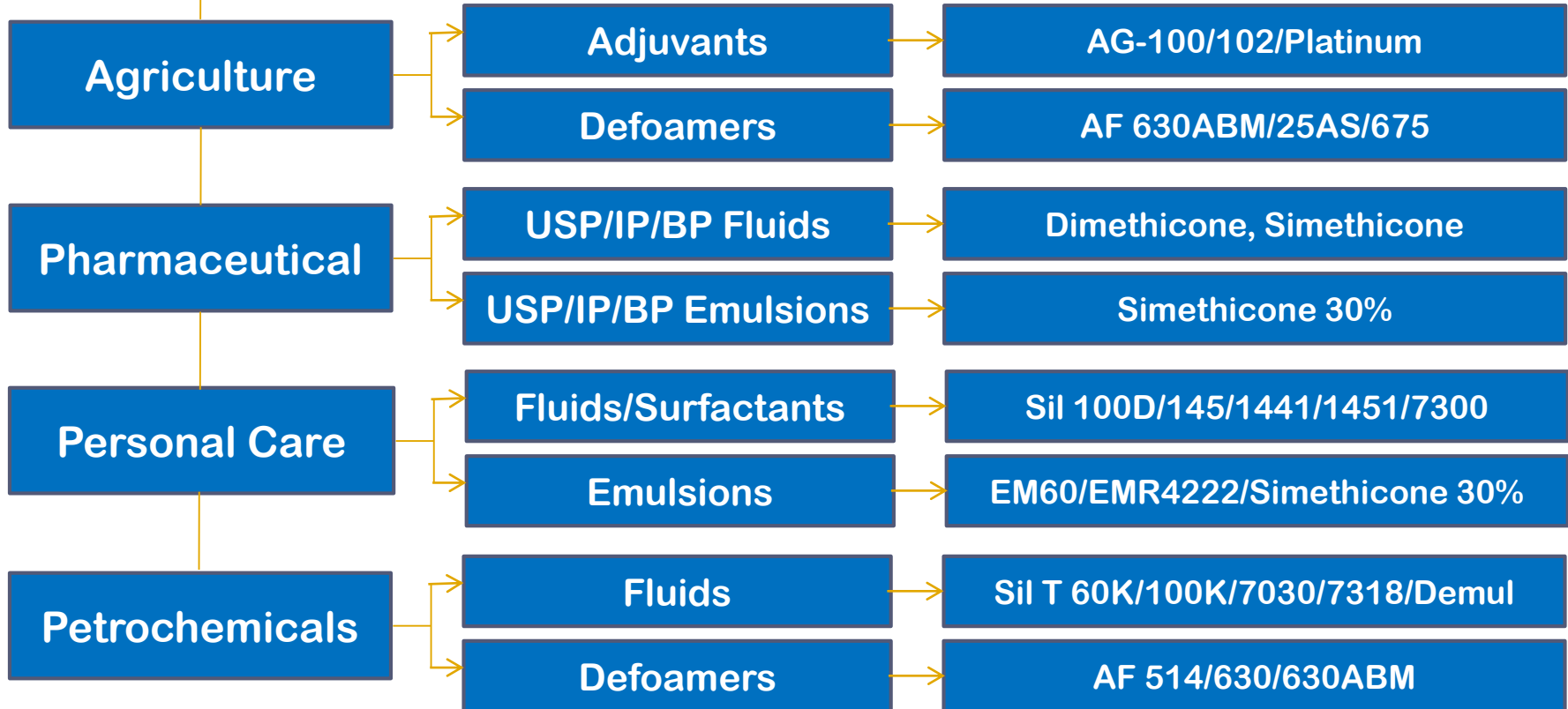


Health/Sanitization

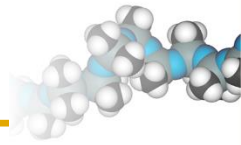
PRODUCT RANGE



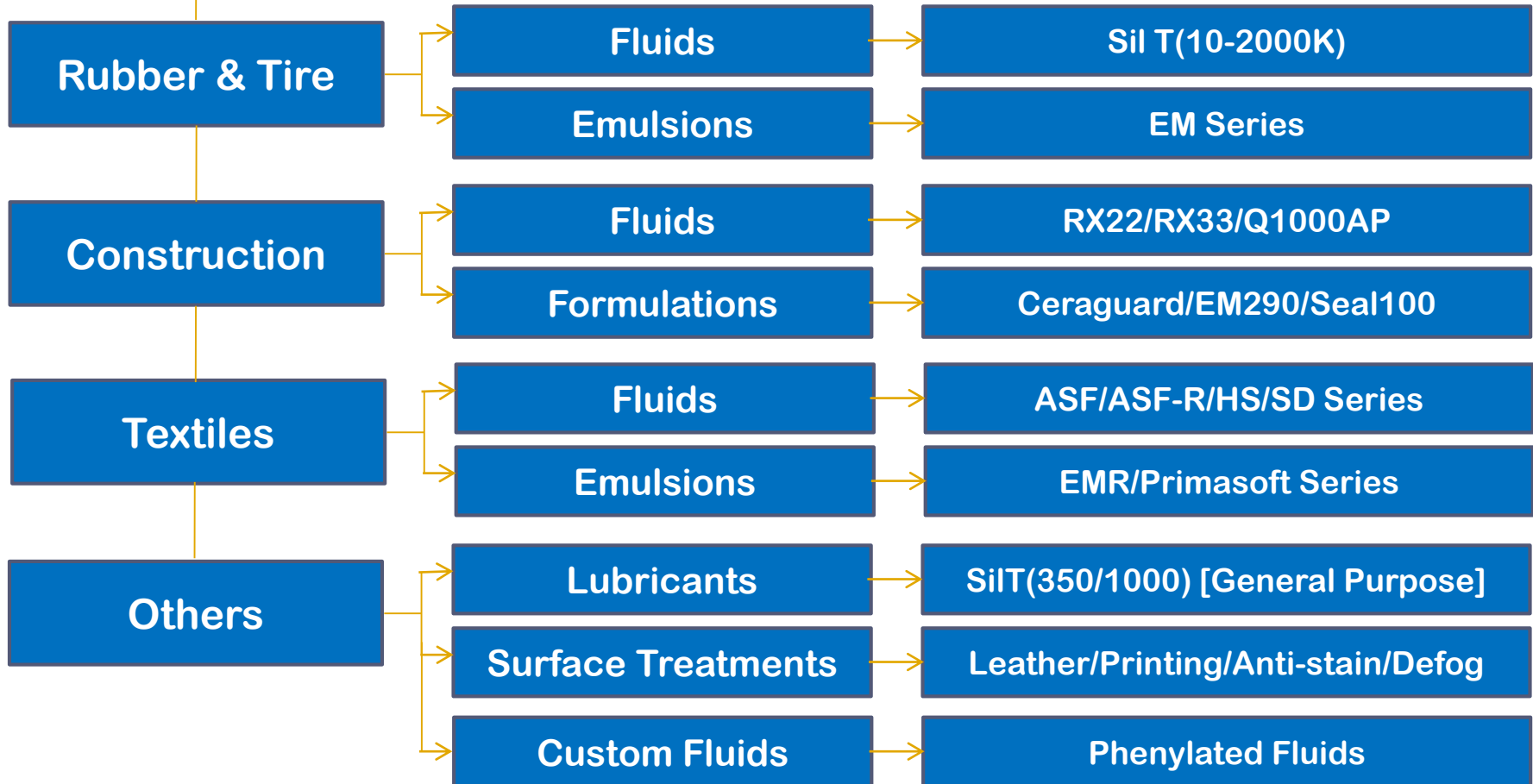
Product Segments



PRODUCT RANGE



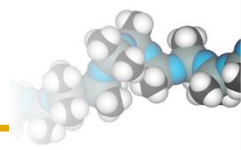
Product Segments



ELKAY PETROCHEMICAL SOLUTIONS



ELKAY PETROCHEMICAL DEFOAMERS



Foam is always an issue in any chemical unit.

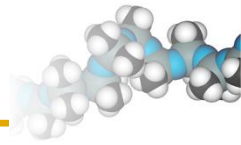
For the petrochemical industry, from drilling to refining to shipping – foaming leads to losses in efficiency, mechanical issues and fouling.

Elkay foam control solutions allow foam control in multiple places in petrochemical units to increase productivity and save our customers money.

SUPER PERFORMANCE

EXCELLENT ECONOMY

SILICONES IN PETROCHEMICALS



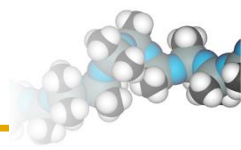
- In the upstream, where foaming occurs during oil depressurization to heavily foaming drilling muds, ELKAY's defoamers help maintain output capacity and destroy troublesome foam.



- In the refinery, where foaming occurs in certain crudes to heavy oil foaming in vacuum distillation to delayed coking, our defoamers are highly effective in foam control to ease handling and improve productivity. Our silicones dispersed in hydrocarbons are especially effective in delayed coking units to reduce depositing in process lines



- In auxiliary units, such as high speed sulphur solidification and other powder processing units, our products increase equipment performance and reduce product dusting



FLUID DEFOAMING PRODUCT RANGE

LIQUIDS	Recommended Concentration (ppm)	Type	O G	V D	C D	C R	A P	D C
LK SIL 100T (1000)	20	Non-aqueous, PDMS		o		o	o	
LK SIL 100T (12500)	20	Non-aqueous, PDMS	o	o				o
LK SIL 100T (60000)	10	Non-aqueous, PDMS	o	o	o			o
LK SIL 100T (100000)	10	Non-aqueous, PDMS	o					o
LK SIL 100T (600000)	5	Non-aqueous, PDMS	o					o
LK SIL 100T (2000000)	5	Non-aqueous, PDMS	o					o

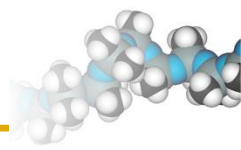
Other viscosities available on request

- Effective at lower temperatures and above 100°C
- 100% active fluids
- Clear, viscous fluids
- Diluents are common aliphatic/aromatic solvents
- Other viscosities are available on request, dispersions are also available
- Shelf Life of 24 months

EXTREMELY EFFECTIVE

LOW DOSAGE

*OG (Oil Gas Separation), VD (Vacuum Distillation), CD (Crude Distillation), CR (Cracking), AP (Asphalt Processing), DC (Delayed Coking)



RELEASE AGENT PRODUCTS

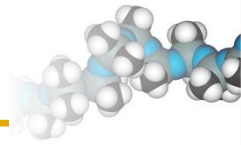
Creates the perfect pastilles for dust free and efficient handling of sulphur

LIQUIDS	Recommended Concentration	Type
LK 7030	Bath (2.5-3%), Spray (10-15%)	Pale yellow liquid, water soluble
LK 7318	Bath (2.5-3%)	Pale yellow liquid, water soluble

- Excellent leveling and release agent for refinery sulphur pastillization units
- Prevents sticking of sulphur pastilles to processing equipment
- Provides an inert, homogenous, clear and shear stable solution in water
- Easy to spray due to low viscosity
- Allows for a uniform shape and dust free pastillization process
- Solutions in water can wet all standard equipment surfaces
- Allows for longer continuous operation
- Reduces equipment maintenance and cleaning costs
- LK 7030 can be optimized for higher ambient temperature conditions

INCREASES UPTIME

REDUCES DUSTING



DE-EMULSIFIERS

Efficient Oil-Water separation at crude/gas extraction

LIQUIDS	RSN	Viscosity (cps)
LK-DEMUL 1	Medium	~2500
LK-DEMUL 2	>16 High	-
LK-DEMUL 3	<10 Low	-
LK-DEMUL 5	>16 High	~500
LK-DEMUL 6	Medium	~300
LK-DEMUL 7	>16 High	~40
LK-DEMUL 12	>16 High	~200
LK-DEMUL 16	<10 Low	~300
LK-DEMUL 17	Medium	~300
LK-DEMUL 18	Medium	~150

- Series of demulsifiers that can quickly migrate to the oil-water interphase and destabilize it
- This allows water removal from crude to be done quicker and at much lower temperatures
- Recommended at 2-10% addition to standard demulsifiers

LOWER TEMPERATURE

QUICK SEPARATION



COMPOUND/EMULSION PRODUCT RANGE

PRODUCT	Recommended Concentration (ppm)	Type	Stability	E T	D M	C D	A P	G T
LK AF514	20	Compound				o	o	
LK AF615	60	12% Actives		o				
LK AF630	60	30% Emulsion		o				
LK AF630ABM	60	30% Emulsion	Base Stable	o				
LK AF633	60	Emulsion	Gas Sweetening					o
LK AF6310	60	Emulsion	Highly efficient	o	o			o

- Effective at lower temperatures up to 50°C
- Easy to use defoaming solutions

EXTREMELY EFFECTIVE

LOW DOSAGE

*ET (Waste Water Treatment), DM (Drilling Muds/Fluids), CD (Crude Distillation), AP (Asphalt Processing), GT (Gas Treatment)
 # Beta Products

ELKAY CHEMICALS PVT. LTD.

Bremen Business Centre, Level 5, Aundh, Pune, Maharashtra, India
 Tel (Office) + 91 74200 01504

E-mail : marketing@elkaysilicones.co.in Web : www.elkaysilicones.com